An Ossay On Diseases of the Chest Respectfully submitted to the Faculty of the Momoropathic Medical College Tennsylvanies On the 31 day of January Eighteen hundred of ifty four On Mingil Dare of Hem Gersey

In presenting myself to the very worth Faculty of the Homoeopathic College of Pennsy brain as a candidate for the degree of Doclor of Medicine; it cannot be expect ed that I should be able to offer anything, new connected with our beloved science. The stand point which I have hithesto occupied has been Comparatively humble, and the opport unities afforded me for observation and unestigation. have necessarily been in a considerable degree limited. My Studies having been confined to the More general principles of medical Acience, no particular has claimed my attention, but the mitiatory steps which I have taken under your very able teachings have introduced me

to a field of inequiry, boundless in its extent, and happy and honorable in its sewards. The more I observe the practical effects of the law "Similia Similabus Consunter" as applied to the cure of disease; the more am I impressed with its perfect a daptation to accomplish the end proposed: and to do something towards adoming and embellishing the great temple of Medical science, whose foundation was laid by the immortal Hahnemann. and his colaborers, shall be among the loftiest purposes of my life. The subject I have chosen as the theme of my essay, is the Symptoms and Sensible signs of diseases of the Chest; affections which are not only insidious and inveterate in their

character, but formidable in their results The great importance of understanding the nature of thoracic diseases, will be evident when we consider the great Insportion of diseases of this class that go to swell the aggregate of human suffering, In ascertaining the nature of these diseases there are three distinct heads under which we shall attempt to describe them, First general symploms: by which is meant the effect of local diseases on the constitution, or the constitutional symptoms, Thus one of the most important of this class is the existence of fever, manifested by the presence of a hot skin, disturbed State of the Julae &C. Again the particular form of fever is an important

quide. For instance in different species of affections, different degrees of fever will exist. In ordinary inflammation of the branchial membrane but little fever will be present, and this generally subsides in a very short time, while in preumonia there is much more febrile excitement, with pain in the chest. Cough, susty expectoration, and dysproed. In inflammation of the pleura there is usually a great deal more present than in either of the other two. Again the fever will not always bear the same character, som etimes it is of the Kind demonimated Continuous fever, where the chills which usher it in. subside after a day or two, and it then continues

without intermiseion until the convalescence of the patient, This kind of fever is generally found accompan ying active inflammation of the Moracie organs, sometimes in brown chitis, but more particularly in fever monia and pleurisy, Again there is sometimes present a very inequalar form of fever, with more or less of chills during the day, followed at night by heat of skin, and towards morning subsiding into profuse persfuration. This is he etic fever, and inclicates suppenation of the lungs, or profound deep seated insitation. In ordinary cases of pleuring the patient will always be hot, but more so at night than at any other time; this

will subside after a time, and if the secovery is perfect will not return. But occasionly after a lapse of some time, the patient will again experience nigors with heat and night sweats, which indicate a tendency to supportion, or that the matter which was thrown out during the early period of inflaumation, has been converted into Jus, and thus fills up the pleura. Again in phthisis and tubercular diffsculties, great emaciation and loss of strength are the first symptoms; but in cases of branchitis these sympt oms do not exist, and thus they become very unportant in establishing, a Cornect diagnosis in thoracie diseases. There is another set of symptoms

which differ from the constitutional. These are the vational symptoms; perversions of the healthy or physistogical action of the thoracie organs. Among the most prominent of these is cough, which is induced by init ation in some part of the air pass a ges. Cough may be either a nervous affection, or the result of initation, or it may be a secondary affection, Caused by the imitation of some disease in a remote organ, The kind of caugh thus becomes an important Consideration, and as a general sule the louder and more striking it is the less dangerous it is to the patient. I trifling mer gruficant cough is much more serious than a loud

and striking one. Thus in the early stages of phthisis, there is but a trifl med cough which is hardly recognized by the patient or his friends. In Juan moura and plensing we have but a low suppressed cough, while in ording bronchitis which is but a mild disease, the cough is loud and maisy. So it is with the effectoration, some times it is transparent, at others viscid and of ake, or thin and bloody. and thus it becomes a valuable aid in the investigation of disease. I misty expectoration denotes infla umation of the lungs, if bloods mingled with the evacuated portion we may be almost certain of the existence of tubercles. Among other

rational symptoms may be included respiratory movements of the chest. on a healthy adult when free from excitement, and perfectly quiet as during sleep the inspirectory and efficatory movements each average about eighteen in a minte, In children they are more frequent, In a child from Sif months to a year old they will average twenty four or twenty six times in a minute. But they are hable in both adult and child to be accelerated from various Causes; And when this acceleration is present in connection with other symptoms, it often indicates sewere disease of the lungs, The fran-

tecular Kinel of acceleration is not icular, thus one side of the chest other not, This would show that there was effusion in one side and not in the other. In other affections the respiration insted of becoming accelerated, becomes smegular, this generally is connected with a low and exhausted state of the systema, as in typhoid fever, and hysteria, where it is sometimes Slower than usual, and at other times more rapid. Where the inegularities in the respiration take place the general inference to be deduced is that there does not exist, any

serious disease of the lange, for were there any hermanent cause present to affect the respiration the effect would be permanent. The now come to a third class which are equaly as unportant as the previous ones. these are denominated the physical signs, and are explained by physical laws alove. The same laws of physics that apply to dead matter, and that have a like sufluence over derimal matter without any special reference to the physiological condition of the organs. In examining patients it is best to strip them. This is always feasible with male patients, but not so with females, who may be covered with a loose gown, through which

the examination may be conducted; but with male patients it is always best to expose their chests, in order to observe if there is any change of shape to be discovered. This is very surportant, for we may find out side larger than the other, which is judice ative of an accumulation of fluid there; or if one side be muraturally small it may be owing to previous pleurisy, in which the effusion has been absorbed, and the side has bee one contracted, owing to the adhesions which bird down the lung. Again in emphysema a part may project in Consequence of the dilatation of the lung, so an effusion into the per-Marchim May Cause a bulging.

From the artificial course of life fursued in cities, we will find that among those who reside in their few have symmetrical chests. They generally have an enlargement about the precordia, and sometimes a slight curvature of the spine. These deformities being the effects of habits, must not be considered in connection with the question now under discussion, The most marked cases where these deformities are present, are in richeto, where there is no pulmonary trouble, One way of distinguishing these deformities from Shore caused by internal pressure, is; Where the bulging is caused by invature of the spine, the intercostal space.

are depressed, but where it caused by internal disease they are pushed out more than the ribs, This is a reasonable mode of distinguishing these different varieties. Another physical sign connected with the chest, is the resonent sound of its prasieties, which is ascen tained more certainly by percussion. The elasticity of the parieties, vanies at different periods of life; it is great ter in youth than in age, when the Cartilages have become more ossified, and of course less yielding The wateral resonence of the chest is only to be secognissed by long practice; and to determine it we resort to percussion. The chest being filled with air, and having clastic

parieties will of course resound on hercursion. There have been various modes adopted, such as an ivory plate and hammer &C, but the best plejunster is the two first fingers of the left hand percussing with the first and second fingers of the right. This will give a perfect idea of the elasticity of the walls of the thorax; and of the reson ence of the internal viscera. A clear sound cannot be drawn from the chest by force; it is to be obtained by a smart sharp tap, made by movery the wist only while the Shoulder remains fixed. No two chests sound precisly, alike, and the best gride to the physician, is to compare the sounds of sphosite portions of the chest.

Thus though two cheets may differ, yet the opposite portions of the same chest, must if healthy give out conresponding sounds. If on one side we perceive a dull sound, and on the other a clear strong one it is indi-Cative of disease. Inother surportant consideration is the circumstances Moderfying the sound. First the degree of fat that may be present, this an ine lastic body and does not readily transmit sound. Lee and the thickness of the Amescular substance that may interfere, for instance over the pectoralis Major Musclo, or over the spine of the scapula, there will be but little sound on percussion. Third due allowance must be made for the

Modification of sound produced by organs that are found in one side of the body and not in the other. Again the power of transmitting, Some in muscular tiesue depends very much on its degree of tension. When relaxed it is a very indifferent one, while when tense, it becomes a tolerably good conductor. It is necessary to be very exact in these examinations: and for this purpose we would observe the following rules, First to percuso moderately and equally, Second to make the muscles of both sides equally tense. Third always to compare the sounds of the opposite sides, Another mode of diagnosing thoracie disease is auscultation. By thes we muteroland listening to the sounds in the

chest, by means of the ear or an just mment. This is said to be an ancient mode of examination, but we believe we are indebted to Lauree for the first practical use of auscultation proper; so much so indeed, that but very little has been added to it since his time. Lanner used the stathoscope, but I believe the ear itself is now recommended instead of that instrument, There may be some circumstances under which a direct application of the ear to the chest of the patient might not be desirable, or proper; but these we think should form the only exceptions. There is however one a dvantage in the use of the Stethoscopie which is that it is useful where you

wish to localize a sound, in a spot where the lar would cover too much space; for instance in obtaining the sound of small cavities, the lar would take in the surrounding Sounds, and thus produce Confusion and mecentainty. In listen my to the action of the lungs, what will we observe? At the commencement of the act of suspiration, the are sushing into the lungs, finds the vesicles Contracted, and more or less emply; as the air enters these vesicles. elestic and yielding in their nature, they become distended at the same time that the sistering air passes over their smooth internal surfaces. thus producing a soft expansive surrow. During expiration there is

a sudden stoppage of this munur. This is because effication is a much less forcible act than inspiration; the former being more a passive mechameal act, while the latter is more the nesult of direct effort. In listening to the sornils of the heart a difference will be perceived between the action of this organ and that of the lungs. In the action of the heart we have two distinct sounds, the first twice as long as the second: these are followed by a pause, corresponding in length to the second sound of the heart. The first sound is caused chiefly by the contraction of the vew tricles, and the closing of the aurieulo ventricular values, and the

propulsion of blood into the arteries. The second sound is mainly due to the sudden to ghtning of the sem ilunar valves, when they are present down across the orifice of the aorta and pulmanay artery. The pance is caused by the passive condition of the ngan, after these two actions. These sounds have been said by some, to resemble the words love done" This would give us a very good idea of what we should effect to hear in the normal action of the heart. Now let us see what we would effect to find in an abnormal condition of the thoracic organs, during a few of the many diseases to which They are liable, And first in preum-

oma; this is and inflammatory disease modering the substance of the lungs. The first symptoms are a sense of cold, on a well marked chill; fallowed by heat and inflammatory reaction, prostration of strength xc. To sational signs are pain in the chest, cough, and dysproca, The pain is the result of concountant inflorenation of the pleura; this is referable to one spot just over the nipple; it feels as if a knife were mu into the siele, and is mereased by pressure and by a full inspiration, There is more or less cough, this is to be expected, as branchitis is usually the concountant of preumonia, The cough is suppressed and painful

because it cannot take place with out furthing the pleura whow the stretch. but in simple branchitis the caugh is land and ringing, Another symptom is dysproca; this is easily accounted for Brathing is for the Juntose of ofgenoring the blood of the ans count enter the lungs in due quantity, or if the broad is sent through the lungs with musual rapidity, the necessity for rapid ofygenation, and for full and rapid breathing increases. The difficulty mereares with the mogress of the disease; suspiration is imperfectly performed in consequence of the increase of pain, which an attempt to fill the lungs cre ates, and hence the breathing become

Short and more frequent. If we examine the chest in the region of the pain, we will have duliness on percussion; This is because the air does not enter freely suto the lungs, If the patient rakes a long inspiration a crepitant saltle will be heard toward the end of in spiration; this indicates inflammatory congestion of the lings, and of course there will be more or less condeusation as the disease advances. The effication which in health is quite short, now becomes prolonged until finally it is as distinct as the mapiration. Both the respiratory sounds become harsh loosing the vesicular Thanacter and finally assuming the dry blowing sound of branchial respiration

which is an unfavorable symptoms. Another symptom of puremina is the expectoration; this is usually a viscial lumpy, and extremely tenacious nucus, of harious shades of color, often of a dingy brick red or rusty hue, which changes into a unco-fundent or brown fluid, and in the latter stages of the disease, into a white or yellow matter streaked with blood, and less tenacions in its consistency. Very closely allied to and often connected with preumania. We have pleurisy. This Consists strictly of an inflammation of the plema with a disposition to the effusion of plastic lymph. filling up the cavity of the thorax. and thus producing, compression of the

lungs. It is attended with fever, pain in the side, cough, and dysproca, dullness on percussion according to the extent of the disease. Some of the differences between pleuriez and prien moria, are: in the former the cough is commonly dry, the pain acute and Superficial, sucreased by percussion, by inspiration and conghing; in fureumonia on the contrary the cough is moist, the pain is deep seated and abtuse with a sense of suffication and oppression. In pleusisy we rarefler blood mixed with the limited expectoration. In foreumaria it is very common, and the expectoration is very about dant. In pleuring on percussion the dullness is more in the depending

portion of the thorax, the respiration is very indistinct, but sometimes the friction between the plema may be heard. On preumonia the respiration is loud and habored, with symptoms of extreme suffocation. Thus we might go on to an indefinite length and give the distinct characteristics of other diseases of the lungs; for they exist in great burietz, all marked by some external symptom, by which they can be distin guished and analyzed, but still numing into each other in such meensible gradations, that it requires the nicest discrimination to unravel the mysteries of these diseases in all their camplicated forms. Then too there is another class of diseases of the

thorax to which we have barely alluded, which ought to claim a consider exable share of our attention. These are dise ares of the heart; considering the intimate relation which this organ sustains to the human elonowy, a knowledge of its diseases, and their external manifestations, becomes of the very first importance to physicians. Now if as we believe, it is true that nature in her boundless resources has a specific homoeopathic remedy for evry organ, tissue, and fibre of the human economy, we have some rdea of the bastness of the field of investigation which is papiead out before us, into which we soon hope to enter